

IAP6 Rec'd PCT/PTO 13 FEB 2006

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of  
Mills

Group Art Unit: Unknown

U.S. Serial No.: 10/552,585

Examiner: Unknown

Filed: October 12, 2005

Att. Docket No.: 62226-PULSED

**For: PLASMA REACTOR AND PROCESS FOR PRODUCING LOWER-ENERGY  
HYDROGEN SPECIES**

February 13, 2006

NEW INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Attached are PTO/SB/O8A and B forms listing the enclosed documents. Copies of the enclosed documents are attached to the presently filed Information Disclosure Statement and/or to the Attachments to the Response filed herewith.

Applicant advises the Secret Committee that took over examination of his pending applications relating to his lower-energy hydrogen technology that Applicant has made a concerted effort to review those applications for documents cited therein and to make those documents of record in each case. Because, however, Applicant's lower-energy hydrogen applications were consolidated under a single Examiner, Bernard Eng-Kie Souw, Applicant believes that the Committee should already be familiar with the totality of these documents. Nonetheless, for purposes of completeness and ensuring that all cited documents have been brought to the PTO's attention, Applicant provides the following list of applications relating to his lower-energy hydrogen technology:

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FEB 14 2006

Application No. 10/552,585

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U.S. Ser. No.	Filing Date
10/552,585	10/12/05
10/893,280	7/19/04
10/513,026	11/01/04
10/494,571	5/6/04
10/469,913	9/5/2003
10/331,725	12/31/02
10/319,460	11/27/02
09/669,877	9/27/00
09/813,792	3/22/01
09/513,768	2/25/00
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09/181,180	10/28/98
09/225,687	1/6/99
09/110,717	7/7/98
09/110,694	7/7/98
09/501,622	2/9/00
09/501,621	2/9/00
09/111,003	7/7/98
09/111,160	7/7/98
09/110,678	7/7/98
09/009,455	1/20/98
09/009,294	1/20/98
09/008,947	1/20/98
09/009,837	1/20/98
08/822,170	4/21/97
08/467,051	6/6/95
08/467,911	6/6/95
08/416,040	4/3/95
08/107,357	8/16/93
08/075,102	6/11/93
07/825,845	1/28/92
07/626,496	12/12/90
07/345,628	4/28/89
07/341,733	4/21/89

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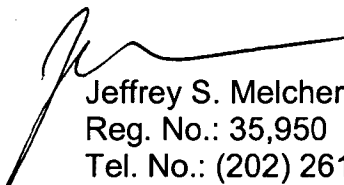
If necessary, please accept this Information Disclosure Statement under Rule 97(c) and charge the requisite Rule 17(p) fee to our Deposit Account No. 50-0687 under Order No. **62-226** for which purposes this paper is submitted in duplicate.

This Information Disclosure Statement is intended to fully comply with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Consideration of the foregoing remarks and enclosures, including return of a copy of the attached PTO/SB/08A and B forms with the Examiner's initials in the left column per MPEP § 609 and an early action on the merits of this application, are earnestly solicited.

Respectfully submitted,  
Manelli Denison & Selter PLLC

By



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Fax. No.: (202) 887-0336

Customer No. 20736

PTO/SB/08A (Modified)

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/552,585
				Filing Date	October 12, 2005
				First Named Inventor	Mills
				Group Art Unit	<del>Unknown</del> 1795
				Examiner Name	<del>Unknown</del> Kalafut
Sheet	1	of	71	Attorney Docket Number	62226-PULSED

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* <sup>2</sup> (if known)			
/SK/		1,001,589		Hatfield	08-23-1911	
		2,708,656		Fermi	05-17-1955	
		3,253,884		Jung, et al	05-31-1966	
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		3,359,422		Pollock	12-19-1967	
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		3,669,745		Beccu	06-13-1972	
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		4,353,871		Bartilt, et al	10-12-1982	
		4,487,670		Bellanger	12-11-1984	
		4,512,966		Nelson	04-23-1985	
		4,568,568		Asano	02-04-1986	
/SK/		4,664,904		Wolfrum	05-12-1987	

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	October 12, 2005
				First Named Inventor	Mills
				Group Art Unit	Unknown
Examiner Name	Unknown				
Sheet	3	of	41	Attorney Docket Number	62226-PULSED

FOREIGN PATENT DOCUMENTS								
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
/SK/		WO	90/10935	A1	Pons	09-20-1990		
		WO	90/14668	A2	Cravens	11-29-1990		
		WO	91/01036	A1	Dufour	01-24-1991		
		WO	91/08573	A1	Bush	06-13-1991		
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		WO	95/20816	A1	Piantelli	08-03-1995		
		WO	00/25320	A1	Davies	05-04-2000		
		WO	02/08787	A2	De Geus	01-31-2002		
		EP	0 392 325	A3	Semiconductor Energy	10-17-1990		
		EP	0 395 066	A2	Matsushita Electric Ind.	10-31-1990		
		JP	53-134792		Ind. Res. Inst. Of	11-24-1978		
		JP	56-136644		Hitachi	03-28-1980		
/SK/		GB	2 343 291		Lloyd Wise, Tregear &	05-13-2000		

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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				Application Number	10/552,585
				Filing Date	October 12, 2005
				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	4	of	71	Attorney Docket Number	62226-PULSED

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
/SK/		WO	90/13126	A1	Mills	11-01-1990		
		WO	92/10838	A1	Mills	06-25-1992		
		WO	94/29873	A2	Mills	12-22-1994		
		WO	96/42085	A2	Mills	12-27-1996		
		WO	99/05735	A1	Mills	03-04-1999		
		WO	99/26078	A1	Mills	5-27-1999		
		WO	99/34322	A1	Mills	7-8-1999		
		WO	99/35698	A3	Mills	07-15-1999		
		WO	00/07931	A1	Mills	02-17-2000		
		WO	00/07932	A2	Mills	2-17-2000		
		WO	01/095944	A2	Mills	12-20-2001		
		WO	01/18948	A1	Mills	3-15-2001		
		WO	01/21300	A2	Mills	03-29-2001		
		WO	01/22472	A2	Mills	3-29-2001		
		WO	01/70627	A3	Mills	08-27-2001		
		WO	02/087291	A2	Mills	10-31-2002		
/SK/		WO	02/088020	A2	Mills	11-7-2002		

Examiner Signature	/Stephen Kalafut/	Date Considered	03/16/2008
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Substitute for form 1449A/PTO  <div style="text-align: center;"> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> </div> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/552,585
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PTO/SB/08B (Modified)

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		Application Number	10/552,585		
		Filing Date	October 12, 2005		
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Examiner Name	Unknown				
Sheet	6	of	21	Attorney Docket Number	62226-PULSED

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		114. R.L. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer $\alpha$ Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. ( <i>Web Publication Date: June 24, 2005.</i> )	
/SK/		113. R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," New Journal of Physics, submitted. ( <i>Web Publication Date: June 9, 2005.</i> )	
/SK/		112. R. L. Mills, J. He, Y. Lu, Z. M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Central European Journal of Physics, submitted. ( <i>Web Publication Date: May 9, 2005.</i> )	
/SK/		111. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species H <sup>+</sup> (1/4) and H <sub>2</sub> (1/4) as a New Power Source," New J. Chem., submitted. ( <i>Web Publication Date: May 6, 2005.</i> )	
/SK/		110. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Soc., Div. Fuel Chem. 2005, 50(2). ( <i>Web Publication Date: April 22, 2005.</i> )	
/SK/		109. R. L. Mills, M. Nansteel, J. He, B. Dhandapani, "Low-Voltage EUV and Visible Light Source Due to Catalysis of Atomic Hydrogen," J. Plasma Physics, submitted. ( <i>Web Publication Date: April 15, 2005.</i> )	
/SK/		108. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy System, submitted. ( <i>Web Publication Date: April 4, 2005.</i> )	
Examiner Signature	/Stephen Kalafut/		Date Considered 03/16/2008

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PTO/SB/08B (Modified)

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		Application Number	10/552,585		
		Filing Date	October 12, 2005		
		First Named Inventor	Mills		
		Group Art Unit	Unknown		
		Examiner Name	Unknown		
Sheet	7	of	21	Attorney Docket Number	62226-PULSED

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
/SK/		107. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physica Scripta, submitted. ( <i>Web Publication Date: October 28, 2004.</i> )		
/SK/		106. R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Foundations of Science, submitted. ( <i>Web Publication Date: October 28, 2004.</i> )		
/SK/		105. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," J. Appl. Physics, submitted. ( <i>Web Publication Date: September 7, 2004.</i> )		
/SK/		104. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22-26, 2004, Philadelphia, PA.		
/SK/		103. R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," Electrochim. Acta, submitted. ( <i>Web Publication Date: April 28, 2004.</i> )		
/SK/		102. R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," Phys. Essays, submitted. ( <i>Web Publication Date: April 22, 2004.</i> )		
/SK/		101. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.		
Examiner Signature	/Stephen Kalafut/		Date Considered	03/16/2008

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/SK/		100. R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (Web Publication Date: Nov. 17, 2003.)	
/SK/		99. R. L. Mills, Y. Lu, B. Dhandapani, "Spectral Identification of H <sub>2</sub> (1/2)," submitted. (no date)	
/SK/		98. R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Web Publication Date: Nov. 18, 2003.)	
/SK/		97. R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (Web Publication Date: Sept. 26, 2003.)	
/SK/		96. J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (Web Publication Date: Sept. 12, 2003.)	
/SK/		95. R. L. Mills, P. Ray, B. Dhandapani, "Excessive Balmer $\alpha$ Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas" IEEE Transactions on Plasma Science, submitted. (Web Publication Date: Aug. 18, 2003.)	
/SK/		94. R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (Web Publication Date: Aug. 6, 2003.)	
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/SK/		91. R. Mills, P. Ray, "New H I Laser Medium Based on Novel Energetic Plasma of Atomic Hydrogen and Certain Group I Catalysts," J. Plasma Physics, submitted. (no date)		
/SK/		90. R. L. Mills, P. Ray, M. Nansteel, J. He, X. Chen, A. Voigt, B. Dhandapani, "Characterization of Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Am. Chem. Soc. Div. Fuel Chem. Prepr., Vol. 48, No. 2, (2003). (no month)		
/SK/		89. R. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Hydrogen Plasmas Generated Using Certain Group I Catalysts Show Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride," Fizika A, submitted (no date)		
/SK/		88. R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005) 77-90. (Web Publication Date: Dec. 22, 2003.)		
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		Filing Date	October 12, 2005		
		First Named Inventor	Mills		
		Group Art Unit	Unknown		
		Examiner Name	Unknown		
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/SK/		86. R. L. Mills, P. Ray, J. He, B. Dhandapani, M. Nansteel, "Novel Spectral Series from Helium-Hydrogen Evenson Microwave Cavity Plasmas that Matched Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," European Journal of Physics, submitted. (Web Publication Date: April 24, 2003.)	
/SK/		85. R. L. Mills, P. Ray, R. M. Mayo, "Highly Pumped Inverted Balmer and Lyman Populations," New Journal of Physics, submitted (no date)	
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/SK/		82. R. Mills, J. Sankar, P. Ray, J. He, A. Voigt, B. Dhandapani, "Synthesis and Characterization of Diamond Films from MPCVD of an Energetic Argon-Hydrogen Plasma and Methane," J. of Materials Research, submitted. (Web Publication Date: May 7, 2003.)	
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/SK/		72. R. L. Mills, M. Nansteel, P. C. Ray, "Bright Hydrogen-Light and Power Source due to a Resonant Energy Transfer with Strontium and Argon Ions," Vacuum, submitted. (no date)	
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/SK/		65. R. Mills, P. Ray, R. "Spectroscopic Evidence for Highly Pumped Balmer and Lyman Populations in a Water-Plasma," J. of Applied Physics, submitted. ( <i>Web Publication Date: Sept. 18, 2002.</i> )		
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/SK/		52. R. Mills and M. Nansteel, P. Ray, "Bright Hydrogen-Light Source due to a Resonant Energy Transfer with Strontium and Argon Ions," New Journal of Physics, Vol. 4, (2002), pp. 70.1–70.28. ( <i>Web Publication Date: October, 2002, when it became available on the New Journal of Physics website.</i> )	
/SK/		51. R. Mills, P. Ray, R. M. Mayo, "CW HI Laser Based on a Stationary Inverted Lyman Population Formed from Incandescently Heated Hydrogen Gas with Certain Group I Catalysts," IEEE Transactions on Plasma Science, Vol. 31, No. 2, (2003), pp. 236–247. ( <i>Web Publication Date: Feb. 4, 2002.</i> )	
/SK/		50. R. L. Mills, P. Ray, J. Dong, M. Nansteel, B. Dhandapani, J. He, "Spectral Emission of Fractional-Principal-Quantum-Energy-Level Atomic and Molecular Hydrogen," Vibrational Spectroscopy, Vol. 31, No. 2, (2003), pp. 195–213. (no month)	
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/SK/		40. R. M. Mayo, R. Mills, M. Nansteel, "On the Potential of Direct and MHD Conversion of Power from a Novel Plasma Source to Electricity for Microdistributed Power Applications," IEEE Transactions on Plasma Science, August, (2002), Vol. 30, No. 4, pp. 1568–1578. ( <i>Web Publication Date: Nov. 12, 2001.</i> )		
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/SK/		35. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Rydberg States of Atomic Hydrogen," Current Appl. Phys., submitted. ( <i>Web Publication Date: Oct. 9, 2001.</i> )		
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/SK/		33. R. L. Mills, P. Ray, B. Dhandapani, M. Nansteel, X. Chen, J. He, "New Power Source from Fractional Quantum Energy Levels of Atomic Hydrogen that Surpasses Internal Combustion," J Mol. Struct., Vol. 643, No. 1-3, (2002), pp. 43-54. ( <i>Web Publication Date: Oct. 10, 2001.</i> )	
/SK/		32. R. L. Mills, P. Ray, "Spectroscopic Identification of a Novel Catalytic Reaction of Rubidium Ion with Atomic Hydrogen and the Hydride Ion Product," Int. J. Hydrogen Energy, Vol. 27, No. 9, (2002), pp. 927-935. ( <i>Web Publication Date: Sept. 19, 2001.</i> )	
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		First Named Inventor	Mills		
		Group Art Unit	Unknown		
		Examiner Name	Unknown		
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/SK/		28. R. Mills, P. Ray, "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter," Int. J. Hydrogen Energy, (2002), Vol. 27, No. 3, pp. 301–322. ( <i>Web Publication Date: Aug. 1, 2001.</i> )		
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/SK/		26. R. Mills, "BlackLight Power Technology-A New Clean Hydrogen Energy Source with the Potential for Direct Conversion to Electricity," Proceedings of the National Hydrogen Association, 12 th Annual U.S. Hydrogen Meeting and Exposition, <i>Hydrogen: The Common Thread</i> , The Washington Hilton and Towers, Washington DC, (March 6-8, 2001), pp. 671–697. ( <i>Presented at the conference on March 7, 2001; Web Publication Date: April 20, 2001.</i> )		
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/SK/		22. R. Mills, "The Grand Unified Theory of Classical Quantum Mechanics," Global Foundation, Inc. Orbis Scientiae entitled <i>The Role of Attractive and Repulsive Gravitational Forces in Cosmic Acceleration of Particles The Origin of the Cosmic Gamma Ray Bursts</i> , (29th Conference on High Energy Physics and Cosmology Since 1964) Dr. Behram N. Kursunoglu, Chairman, December 14-17, 2000, Lago Mar Resort, Fort Lauderdale, FL, Kluwer Academic/Plenum Publishers, New York, pp. 243-258. (Presented at the conference on Dec. 15, 2000; Web Publication Date: May 17, 2001.)	
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/SK/		17. R. Mills, "The Nature of Free Electrons in Superfluid Helium—a Test of Quantum Mechanics and a Basis to Review its Foundations and Make a Comparison to Classical Theory," Int. J. Hydrogen Energy, Vol. 26, No. 10, (2001), pp. 1059–1096. (Web Publication Date: Dec. 11, 2000.)		
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/SK/		11. R. Mills, M. Nansteel, and Y. Lu, "Observation of Extreme Ultraviolet Hydrogen Emission from Incandescently Heated Hydrogen Gas with Strontium that Produced an Anomalous Optically Measured Power Balance," Int. J. Hydrogen Energy, Vol. 26, No. 4, (2001), pp. 309–326. ( <i>Web Publication Date: June 27, 2000.</i> )	
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/SK/		6. R. Mills, "Novel Hydrogen Compounds from a Potassium Carbonate Electrolytic Cell," Fusion Technology, Vol. 37, No. 2, March, (2000), pp. 157–182. ( <i>Web Publication Date: June 26, 2000.</i> )	
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/SK/		4. Mills, R., Good, W., "Fractional Quantum Energy Levels of Hydrogen," Fusion Technology, Vol. 28, No. 4, November, (1995), pp. 1697-1719. ( <i>Web Publication Date: Nov. 1, 2001.</i> )	
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/SK/		Abdallah, et. al. "The Behavior of Nitrogen Excited in an Inductively Coupled Argon Plasma." <i>J. Appl. Phys.</i> , Vol 88, No 1, July 2000, pp. 20-33.	
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/SK/		Associated Press. "Physicist: Utah Cold-Fusion Gear Doesn't Work." <i>The Washington Post</i> , March 29, 1990, p. A3.	
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/SK/		"Atomic Spectroscopy" (internet page) <a href="http://physics.nist.gov/Pubs/AtSpec/node20.html">physics.nist.gov/Pubs/AtSpec/node20.html</a> (author and date unknown)	
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/SK/		Barmann et. al. "Spatially and Temporally Resolved Studies of the Electron Density in Liquid Streamers by Emission Spectroscopy" (Internet page) atomp2.fysic.lth.se/AFDOCS/Progrep956/5a1.htm (Atomic Physics Progress Report)	
/SK/		Barth, "Bigger Than Fire?", Gale Group Magazine DB, The Gale Group, 2003 (no month)	
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/SK/		Bishop. "It ain't over til it's over ... Cold Fusion." <i>Popular Science</i> , Aug 1993, pp. 47-51.	
/SK/		Bishop. "More Labs Report Cold Fusion Results." <i>Wall Street Journal</i> , Oct 19, 1992.	
/SK/		Bjorken et al., ""Relativistische Quantenmechanik", <i>Die Dirac-Gleichung</i> , pp. 22-25, 1964 (no month)	
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/SK/		Boniface, et. al. "Calorimetry for a Ni/K <sub>2</sub> CO <sub>3</sub> Cell." AECL Research, June 1994.	

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				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
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/SK/		Bosch, et. al. "Electrochemical Cold Fusion Trials at IPP Garching." <i>Journal of Fusion Energy</i> , Vol 9, No 2, June 1990, pp. 165-186.	
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/SK/		Browne. "Physicists Put Atom in 2 Places at Once." <i>The New York Times</i> . (no date)	
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/SK/		Dagani. "Cold Fusion believer turns skeptic crusades for more rigorous research." <i>C&amp;EN Washington</i> , June 5, 1995, pp. 34-45, 38 and 40.	
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/SK/		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.	
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/SK/		Hines, "Scientific Mistakes: N-rays and Polywater", <i>Pseudoscience and the Paranormal</i> , Prometheus Books, 1988, pp. 8-13 (no month)	
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				Filing Date	October 12, 2005
				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
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/SK/		Judge, "SHE-2 Latest Solar EUV Measurements"(internet page) www.usc.edu/dept/space_science/seh2data.htm, August 18, 1997	
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/SK/		Kreig "Hydrinos: A state below the ground state" (internet page) www.phact.org/e/x/hydrino.htm (date unknown)	
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/SK/		Pauling, et. al. "Introduction to Quantum Mechanics with Applications to Chemistry." <i>Harvard University</i> , 1985, pp. 121-140. (no month)	
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>			<b>Complete if Known</b>		
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			Filing Date	October 12, 2005	
			First Named Inventor	Mills	
			Group Art Unit	Unknown	
			Examiner Name	Unknown	
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/SK/		Rathke. "A critical analysis of the hydrino model." <i>New Journal of Physics</i> , Volume 7, 127. 2005. (no month)	
/SK/		Rauch et .al. "Some F-Band Optical Oscillator Strengths in Additively Colored Alkali Halides." <i>Physical Review</i> , Feb 1, 1957, Vol 105, pp. 914-920.	
/SK/		Rees. "Cold Fusion...What Do We Think?" <i>Journal of Fusion Energy</i> , Vol 10, No 1, 1991, pp. 110-116. (no month)	
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/SK/		Rousseau. "Case Studies in Pathological Science." <i>American Scientist</i> , Vol 80, 1992, pp. 54-63.	
/SK/		Rout, et. al. "Phenomenon of Low Energy Emissions from Hydrogen/Deuterium Loaded Palladium." <i>3<sup>rd</sup> Annual Conference on Cold Fusion</i> , Oct. 21-25, 1992.	
/SK/		Rudd, et. al. "Backward Peak in the Electron Spectrum from Collisions of 70-keV Protons with a Target from a Hydrogen-Atom Source." <i>Physical Review Letters</i> , Vol 68, No 10, March 1992, pp. 1504-1506.	
/SK/		Salamon, et. al. "Limits ... Electrolytic Cells." <i>Nature</i> , Vol 344, March 29, 1990, pp. 401-405.	
/SK/		Schaefer. "Das Ultrarote Spektrum Des U-Zentrums," <i>Phys. Chem. Solids</i> , 1960, 12, pp. 233-244, Pergamon Press, Great Britain. (no month)	
/SK/		Scheerer et al. "Microwave Saturation of Paraelectric-Resonance Transitions of OH <sup>-</sup> Ions in KCl:." <i>Solid State Communications</i> , Vol 4, 1966, pp. 639-642. (no month)	
/SK/		Schiff, Leonard I. "Quantum Mechanics." <i>Stanford University</i> , 1968, pp. 1, 7-8, 10-12, 21, 54-57, 60-61, 81-82, 101, 527. (no month)	
/SK/		Schrieder, et. al. "Search for Cold Nuclear Fusion in Palladium-Deuterium." <i>Z. Phys. B-Condensed Matter</i> , Vol 76, No 2, 1989, pp. 141-142. (no month)	
/SK/		Service. "Cold Fusion: Still Going." <i>Newsweek Focus</i> , July 19, 1993.	

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		Schrieder, et. al. "Search for Cold Nuclear Fusion in Palladium-Deuterium." <i>Z. Phys. B-Condensed Matter</i> , Vol 76, No 2, 1989, pp. 141-142.	
		Service. "Cold Fusion: Still Going." <i>Newsweek Focus</i> , July 19, 1993.	

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/SK/		Shani, et. al. "Evidence for a Background Neutron Enhanced Fusion in Deuterium Absorbed Palladium." <i>Solid State Communications</i> , Vol 72, No 1, 1989, pp. 53-57. (no month)	
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/SK/		Shermer, "Baloney Detection", <i>Scientific American</i> , November 2001	
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/SK/		Srinivasan, et. al. "Tritium and Excess Heat Generation during Electrolysis of Aqueous Solutions of Alkali Salts with Nickel Cathode." <i>3<sup>rd</sup> Annual Conference on Cold Fusion</i> , Oct. 21-25, 1992.	
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/SK/		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
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/SK/		Vigier. "New Hydrogen Energies in Specially Structured Dense Media : Capillary Chemistry and Capillary Fusion." <i>Proceedings of the Third Annual Conf. on Cold Fusion</i> , Nagoya, Japan, October 21-25, 1992, H. Ikegami, Ed. Universal Academy	
		<del>Vigier. "New Hydrogen (Deuterium) Bohm Orbits." <i>Proc. 100F4</i>, Vol 4, 1994, p. 7-10.</del>	
/SK/		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315. (no month)	
/SK/		Wheeler, et. al. "Quantum Theory and Measurement." Translation of Heisenburg's Uncertainty Principle Paper, <i>Zeitschrift für Physik</i> , 1927, Vol 43, pp. 172-198. (no month)	
/SK/		Williams. "Upper Bounds on Cold Fusion in Electrolytic Cells." <i>Nature</i> , Vol 342, 23 November 1989, pp. 375-384.	
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/SK/		Yamaguchi et. al. "Direct Evidence...Palladium." <i>NTT Basic Research Laboratories</i> , 1992 pp. 1-10. (no month)	
/SK/		Ziegler, et. al. "Electrochemical Experiments in Cold Nuclear-Fusion." <i>Physical Review Letters</i> , Vol 62, No 25, June 19, 1989, pp. 2929-2932.	
/SK/		Zimmerman, Peter "An analysis of theoretical flaws in so-called classical quantum mechanics and of experimental evidence against CQM" (internet page) groups.yahoo.com/group/hydrino/files/analysis.rtf (date unknown)	

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/SK/		Mills. "Author's response to 'Hydrino atom: novel chemistry or invalid physics'." <i>International Journal of Hydrogen Energy</i> , Vol 26, 2001, pp. 1233. (no month)	
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/SK/		Mills, "Classical Quantum Mechanics." <i>Physica Scripta</i> , submitted. (no date)	
		<del>Mills. "The Grand Unified Theory of Classical Quantum Mechanics." pp. 1-9</del>	
		<del>Mills, "The Grand Unified Theory of Classical Quantum Mechanics," (2004), Distributed by Amazon.Com. (also cited as attachment 1 on page 23)</del>	
/SK/		Mills. "Hydro catalysis Power Technology." <i>Statement of Dr. Randell L. Mills</i> , May, 1993.	
/SK/		Mills, "A Maxwellian Approach to Quantum Mechanics Explains the Nature of Free Electrons in Superfluid Helium." <i>Foundations of Science</i> , submitted. Internet Publication Date 6/4/02	

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PTO/SB/08B (Modified)

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/SK/		Mills. "Spectral Emission of Fractional Quantum Energy Levels of Atomic Hydrogen from a Helium-Hydrogen Plasma and the Implications for Dark Matter." <i>International Journal of Hydrogen Energy</i> , Vol 27, 2002, pp. 301-322. Internet Publication 8/01/01	
/SK/		Mills, "Spectroscopic Identification of a Novel Catalytic Reaction of Atomic Hydrogen and the Hydride Ion Product," <i>Int. J. Hydrogen Energy</i> , Vol. 26, No. 10, (2001), pp. 1041-1058. (Web Publication Date: March 23, 2001.)	
/SK/		Mills. "Unification of Spacetime, the Forces, Matter, Energy, Hydro catalysis Power Corporation." 1992, pp. 53-84. (no month)	
/SK/		Mills, et. al. "Anomalous Argon-Hydrogen-Strontium Discharge." <i>IEEE Transactions of Plasma Science</i> , submitted. (no month)	
/SK/		Mills et al., "Chemically-Generated Stationary Inverted Lyman Population for a CW HI Laser," <i>European J of Phys. D</i> , submitted. (Web Publication Date: April 22, 2002.)	
/SK/		Mills, et. al. "Comparison of Excessive Balmer Line Broadening of Glow Discharge and Microwave Hydrogen Plasmas with Certain Catalysts." <i>Chemical Physics</i> . Submitted. Internet Publication Date 9/17/02	
/SK/		Mills, et. al. "CVD Synthesis of Single Crystal Diamond Films on Silicon Substrates Without Seeding." <i>Diamond and Related Materials</i> , submitted. Internet Publication Date 6/26/02	
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				First Named Inventor	Mills
				Group Art Unit	Unknown
				Examiner Name	Unknown
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		<del>Mills et al., "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," European Physical Journal D, submitted. (Web Publication Date: June 6, 2003.)</del>	
/SK/		Mills, et. al. "Excess Heat Production...Cold Fusion." <i>Fusion Technology</i> , Vol 20, Feb 1991, pp. 65-81.	
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		<del>Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales De La Fondation Louis DeBroglie, submitted. (Web Publication Date: Jan. 27, 2003.)</del>	
/SK/		Mills, et. al. "Highly Stable Amorphous Silicon Hydride." <i>J of Materials Research</i> , submitted. Internet Publication Date 4/15/02	
/SK/		Mills, et. al. "High Resolution Spectroscopic Observation of the Bound-Free Hyperfine Levels of a Novel Hydride Ion Corresponding to a Fractional Rydberg State of Atomic Hydrogen", <i>International Journal of Hydrogen Energy</i> , in press. (no date)	
		<del>Mills et al., "Liquid Nitrogen Condensable Molecular Hydrogen Gas Isolated from a Catalytic Plasma Reaction," J. Phys. Chem. B, submitted.</del>	
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/SK/		Mills, et. al. "Plasma Power Source Based on a Catalytic Reaction of Atomic Hydrogen." Fuels and Energy, submitted. (no date)	
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/SK/		Mills, et. al. "Spectroscopic Characterization of Stationary Inverted Lyman Populations and Free-Free and Bound-Free Emission of Lower-Energy State Hydride Ion Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Group I Catalysts, Quantitative Spectroscopy and Radiative." Submitted. (no date)	
/SK/		Mills, et. al. "Spectroscopic Identification of Fractional Rydberg States of Atomic Hydrogen." <i>Journal of Physical Chemistry</i> (letter), Submitted. (no date)	
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/SK/		Mills, et. al. "Synthesis and Characterization of a Highly Stable Amorphous Silicon Hydride", <i>International Journal of Hydrogen Energy</i> , submitted. Internet Publication Date 4/15/02	

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/SK/		Mills, et. al. "Synthesis of Diamond Films from Solid Carbon." Diamond and Related Materials, submitted. (no date)	
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/SK/		Letter from Shelby T. Brewer to The Honorable James E. Rogan, December 21, 2001 and PTO response from Jason C. Roe, April 24, 2002 (see Attachment A)	
/SK/		PARK, "Patent Nonsense, Court Denies Blacklight Power Appeal", <i>What's New</i> , September 6, 2002, <a href="http://www.aps.org.WN/WN02/wn090602.html">www.aps.org.WN/WN02/wn090602.html</a> (see Attachment C)	
/SK/		RANDI, "Houdini and the Rabbi, The Patent Office Again, A Perpetual Motion/Emotion Car Breaks Down...", <i>Swift</i> , September 20, 2002, <a href="http://www.randi.org/jr/092002.html">www.randi.org/jr/092002.html</a> (see Attachment C)	
/SK/		VOSS, "'New Physics' Finds a Haven At the Patent Office", <i>Science</i> , Vol. 284, pp. 1252-1254, May 21, 1999 (see Attachment D)	
/SK/		PTO Memorandum For All Employees: Media Contact Policy from Acting Assistant Secretary of Commerce and Acting Commissioner of patents and Trademarks, June 22, 1999	
/SK/		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger, February 28, 2000 (see Attachment G)	
/SK/		Internet Discussion Forum, "Two Brand New Papers out at BLP's "What's New" page," message No. 7191 on Hydrino Study Group, <a href="http://groups.yahoo.com/group/hyrino/message/7191">http://groups.yahoo.com/group/hyrino/message/7191</a> , September 27, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Even Skeptics can lose Objectivity," message No. 7410 on Hydrino Study Group, <a href="http://groups.yahoo.com/group/hyrino/message/7410">http://groups.yahoo.com/group/hyrino/message/7410</a> , October 27, 2003 (see Attachment H)	

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/SK/		Internet Discussion Forum, "Two Competing Views of Reality Engage in a Battle for Total Control of Our Physics Paradigm", <i>Hydrino Study Group</i> , <a href="http://www.hydrino.org">http://www.hydrino.org</a> (see Attachment H) (no date)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, November 10, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Peter Zimmerman and Tom Stolper, October 29, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Zimmerman's APS Centennial Meeting Talk", Transcript from Tom Stolper, October 28, 2003 (see Attachment H)	
		<del>Internet Discussion Forum, "HSG: Even skeptics can lose objectivity", Transcript from Steve Menton, October 26, 2003 (see Attachment H) (also cited on page 60)</del>	
/SK/		Internet Discussion Forum, "HSG: Zimmerman's Insincere Questions", Transcript from Peter Zimmerman and Steve Menton, September 25, 2003 (see Attachment H)	
/SK/		Internet Discussion Forum, "Re: Re: Zero Electrostatic Self-Interaction Justified", Transcript from Peter Zimmerman, May 22, 2003 <a href="http://groups.yahoo.com/group/hydrino/message/6052">http://groups.yahoo.com/group/hydrino/message/6052</a> (see Attachment H)	
/SK/		Internet Discussion Forum, "HSG: Re: Bool Review by Dr. John Farrell", Transcript from Peter Zimmerman, February 23, 2004 (see Attachment H)	
/SK/		"Regarding PZ's Departing Post", includes many public posts on hydrino study group. pp 1-75 (see Attachment I) (no date)	
		<del>PARK, "Perpetual Motion: Still Going Around", Special to the Washington Post, January 12, 2000, Page H03 (see Attachment J) (also cited on page 45)</del>	
/SK/		Letter from Jeffrey S. Melcher to Ms. Esther Kepplinger with Attachments A-E, January 19, 2001(see Attachment K)	
		<del>PLATT, "Testing the Current", The Washington Post, June 25, 2000, Page X05 (see Attachment M) (also cited on page 46)</del>	
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		<del>USPTO Communication re Interview scheduled for February 21, 2003, February 12, 2001 (see Attachment N)</del>	
/SK/		Letter from Senator Ron Wyden to The Honorable Todd Q. Dickinson with attachments, April 5, 2000 (see Attachment O)	
		<del>Letter from Senator Robert C. Torricelli to Nicholas P. Godisi with attachments, July 20, 2001 (see Attachment O)</del>	
/SK/		Letter from Senator Jon S. Corzine to The Honorable Todd Q. Dickinson with attachments, August 2, 2001 (see Attachment O)	
/SK/		Letter from Senator Max Cleland to Ms. Jane Cooksey with attachments, March 24, 2000 (see Attachment O) Letter from Senators Max Cleland and Ron Wyden to Chairman Patrick Leahy, December 20, 2001 (see Attachment O)	
/SK/		Letter from Senators Max Cleland and Ron Wyden to The Honorable Donald L. Evans, December 20, 2001; Letter from Senators Jon S. Corzine and Robert G. Torricelli to The Honorable Donald L. Evans, December 21, 2001 (see Attachment O)	
/SK/		Email re Interview Summary from Jeffrey Simenauer to Ted Liu, February 13, 2003 (see Attachment P)	
/SK/		"APS E-Board Passes Resolution on Perpetual Motion Machines", APS NEWS ONLINE, August/September 2002, <a href="http://www.eps.org/aps/apsnews/0802/080212.html">http://www.eps.org/aps/apsnews/0802/080212.html</a> (see Attachment Q)	
/SK/		Letter from Elizabeth Barlow to John Allen, March 17, 2004 (see Attachment R)	
/SK/		Letters from John Allen to Office of Counsel, US Department of Commerce with attachments, May 12, 2003, June 7, 2003, and March 10, 2004 (see Attachment R)	
/SK/		Souw, Bernard, "Coherent Telescope array with self-homodyne interferometric detection for optical communications," Opt. Eng. 42(11) 3139-3157 (Nov. 2003); U.S. Department of Commerce, Summary of Ethics Rules, USPT, 2000; October 15, 2004 E-mail to Examiner Wayner (Attachment S)	
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/SK/		CRITCHLEY <i>et al.</i> , "Energy shifts and forbidden transitions in H <sub>2</sub> due to electronic g/u symmetry breaking", <i>Molecular Physics</i> , 2003, Vol. 101, Nos. 4-5, pp. 651-661, Taylor & Francis Ltd. (no month)	
/SK/		GAMBUS <i>et al.</i> , "Spectroscopic Study of Low-Pressure Water Plasmas and Their Reactions with Liquid Hydrocarbons", <i>Energy &amp; Fuels</i> , 2002, 16, pp. 172-176, American Chemical Society (no month)	
		<del>CVETANOVIC <i>et al.</i>, "Excessive Balmer line broadening in a plane cathode abnormal glow discharge in hydrogen", <i>Journal of Applied Physics</i>, 97, 093302 (2005), American Institute of Physics (also cited on page 30)</del>	
/SK/		AKATSUKA <i>et al.</i> , "Stationary population inversion of hydrogen in an arc-heated magnetically trapped expanding hydrogen-helium plasma jet", <i>Physical Review E</i> , 49, 2, pp. 1534-1544, February, 1994, The American Physical Society	
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/SK/		AHN, "Hydrogen Storage in Metal-Modified Single-Walled Carbon Nanotubes", Division of Engineering and Applied Science, California Institute of Technology, September 15, 2001	
/SK/		DUAN <i>et al.</i> , "Numerical calculation of energies of some excited states in a helium atom", <i>Eur. Phys. J.</i> , D 19, (2002), pp. 9-12, Societa Italiana di Fisica, Springer-Verlag 2002 (no month)	
/SK/		NIXON <i>et al.</i> , "Formation and structure of the potassium graphites", <i>Brit. J. Appl. Phys.</i> , Ser. 2, Vol. 1, pp. 291-299, Great Britain, 2002 (no month)	
/SK/		ZELLINGER, "Experiment and the foundations of quantum physics", <i>Reviews of Modern Physics</i> , Vol 71, No. 2, pp. S288-S297, Centenary 1999, The American Physical Society (no month)	

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		<del>D. Luggenholscher, U. Czarnetzki, and H.F. Dobe Institut fur Laser-und Plasmaphysik, Universität-Essen, Germany, "Investigations on Electric Field Distributions in a Microwave Discharge in Hydrogen"</del> (also cited on page 41)	
		<del>Technology Insights, "Hydro-Catalysis Technical Assessment," (Part of 09/669,837 paper no.: 20050207</del> <del>This document was submitted by R. Mills on 7/17/02 in responding application 09/669,877).</del>	
/SK/		Evans Analytical Group, <a href="http://www.cea.com/inst.htm#esca2">http://www.cea.com/inst.htm#esca2</a> , "Time-of-Flight Secondary Ion Mass Spectrometry "(TOF-SIMS)	
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		<del>Raoul Nakhmanson, "The Ghostly Solution of the Quantum Paradoxes and it's Experimental Verification", from "Frontiers of Fundamental Physics", Bartone &amp; Gellen, Plenum Press, NY 1994, &lt;<a href="http://arxiv.org/ftp/physics/papers/0103/0103006.pdf">http://arxiv.org/ftp/physics/papers/0103/0103006.pdf</a>&gt;</del>	(also cited on page 44)
		<del>Donald A. McQuarrie, "Quantum Chemistry", University Science Books, CA, 1983,</del> <del>relevant parts of Chapters 4, 6, and 8. (also cited on page 42)</del>	

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/SK/		OLTHOFF <i>et al.</i> , "Studies of Ion Kinetic-Energy Distributions in the Gaseous Electronics Conference RF Reference Cell", <i>Journal of Research of the National Institute of Standards and Technology</i> , 100:4, pp. 383-400, July-August 1995	
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		First Named Inventor	Mills		
		Group Art Unit			
		Examiner Name			
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/SK/		Quantum Physics 301, Paradoxes and Interpretation", (no date) < <a href="http://www.teach..phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf">http://www.teach..phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf</a> >	
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